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GFI Backup 2011 Getting started guide



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1 About GFI Backup

1.1 Introduction

This getting started guide is a comprehensive guide aimed at assisting you in installing and configuring GFI Backup for first time use.




1.2 Using this manual

This manual contains the following chapters:

CHAPTER	DESCRIPTION
Chapter 1	About GFI Backup Introduces this manual and provides the basic information on how to use it.
Chapter 2	System requirements Provides the minimum system requirements to install and run GFI Backup.
Chapter 3	Installing GFI Backup Provides information on how to install the GFI Backup Administration Console.
Chapter 4	Testing GFI Backup Gives detailed information on how to test your GFI Backup installation.
Chapter 5	Troubleshooting and support Provides you with all the necessary information on how to deal with troubleshooting any problems encountered while using GFI Backup. Also provides extensive support information.
Chapter 6	Glossary Defines technical terms used within GFI Backup
Chapter 7	Appendix 1 - Credentials for remote operations Provides you with extensive information on the method used by GFI Backup to gain access to the data to back up from networked computers.

1.2.1 Terms used in this manual

The following terms are used in this manual:

TERM	DESCRIPTION
	Additional information and references essential for the operation of GFI Backup.
	Important notifications and cautions regarding potential issues that are commonly encountered.
	Step by step navigational instructions to access a specific function.
Bold text	Items to select such as nodes, menu options or command buttons.
<i><Italic text></i>	Parameters and values that you must replace with the applicable value, such as custom paths and filenames.

For any technical terms and their definitions as used in this manual, refer to the [Glossary](#) chapter in this manual.

1.2.2 Administration and Configuration manual

Detailed administration and configuration guidelines are provided in a separate manual, GFI Backup **Administration and Configuration manual** that is installed with the product or separately downloadable from the GFI web site: [Online manuals](#)

1.3 How does GFI Backup work?

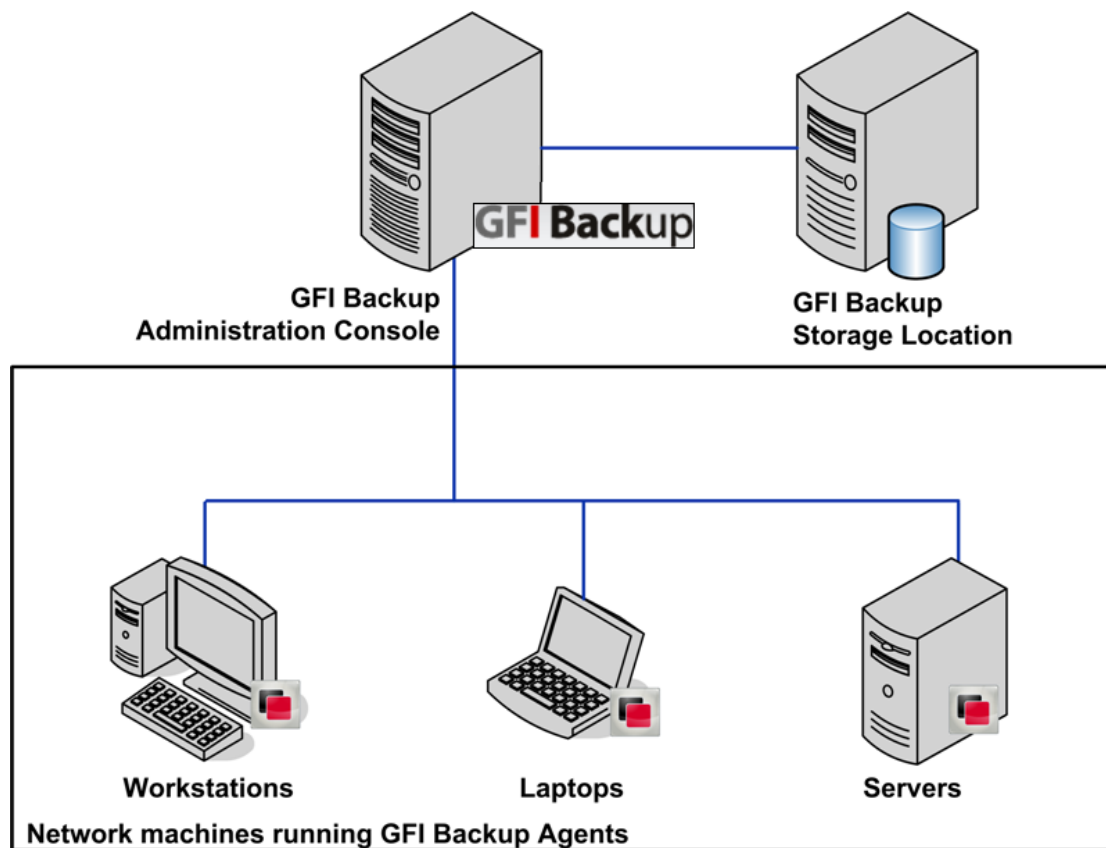


Figure 1 - GFI Backup installation setup diagram

GFI Backup is composed of two interdependent components:

- GFI Backup Administration Console
- GFI Backup Agents

1.3.1 GFI Backup Administration Console

Install the GFI Backup Administration Console in a location with network access to all the computers that require a backup solution. On deploying all the required agents on your networked computers, use the GFI Backup Administration Console to:

- Configure and manage backup and restore tasks across multiple computers on your network
- Manage GFI Backup Agents deployed on your network
- Restore data on networked computers from a central location
- Centralize the storage of backups to a central network location or media
- Monitor the operation of tasks (backups and restores) across the whole network
- Generate reports on the operation of backups and restores

1.3.2 GFI Backup Agents

The GFI Backup Agents are the components that backup and restore data on the client machines, including the computer where GFI Backup Administration Console is installed. Through the setting up of user permissions by systems administrators, users can also configure their own backups, restores and sync operations on their workstations and computers.

1.4 GFI Backup licensing

Information on licensing is available from: [Compare editions](#)

2 System requirements

2.1 GFI Backup Administration Console

2.1.1 Hardware requirements

- Processor: Intel Pentium 4 onwards
- RAM: 1GB
- Hard disk: 500MB for installation, temporary files and logs

2.1.2 Software requirements

Supported operating systems (x86 or x64)

- Microsoft Windows Server 2008
- Microsoft Windows Server 2003 Standard/Enterprise
- Microsoft Windows 7
- Microsoft Windows Vista
- Microsoft Windows XP

Supported web browsers

- Microsoft Internet Explorer 8 or later
- Mozilla Firefox 3 or later

Other required components

- **Adobe Flash Player** - required by GFI Backup to display Activity and Disk Space charts in the Home Page of GFI Backup Administration Console. Freely downloadable from: <http://www.adobe.com/products/flashplayer/>
- **Static IP address** - install GFI Backup Administration Console on a computer with a static IP address. Using DHCP may lead to connectivity loss between the GFI Backup Administration Console and the GFI Backup Agents.
- **Open TCP ports 5580 & 5543** - required for GFI Backup Administration Console access and for communication between GFI Backup Agents and GFI Backup Administration Console.



Ensure that your firewall settings enable communications between all the computers where GFI Backup Agents are installed and the server where GFI Backup Administration Console resides. For further information on how to configure the Windows Firewall refer to:
<http://kbase.gfi.com/showarticle.asp?id=KBID003879>



In case where GFI Backup Administration console is installed on a computer with multiple IP addresses (for example, Internal and External networks), it is recommended that during the installation you specify an IP address reachable by all subnets where the GFI Backup Agents will be installed.

Optional requirements

- Microsoft Volume Snapshot Service (Microsoft VSS) - required to back up files currently in use.

2.2 GFI Backup Agent

2.2.1 Hardware requirements

- Processor: Compatible with Microsoft operating systems
- RAM: 1GB
- Hard disk: 300MB

2.2.2 Supported operating systems (x86 or x64)

- Microsoft Windows Server 2008
- Microsoft Windows Server 2003 Standard/Enterprise
- Microsoft Windows 7
- Microsoft Windows Vista
- Microsoft Windows XP

2.3 GFI Backup Bootable Restore Disk

2.3.1 Hardware requirements

- Processor: All supported by Microsoft operating systems
- RAM: 1GB
- Hard disk: 30MB

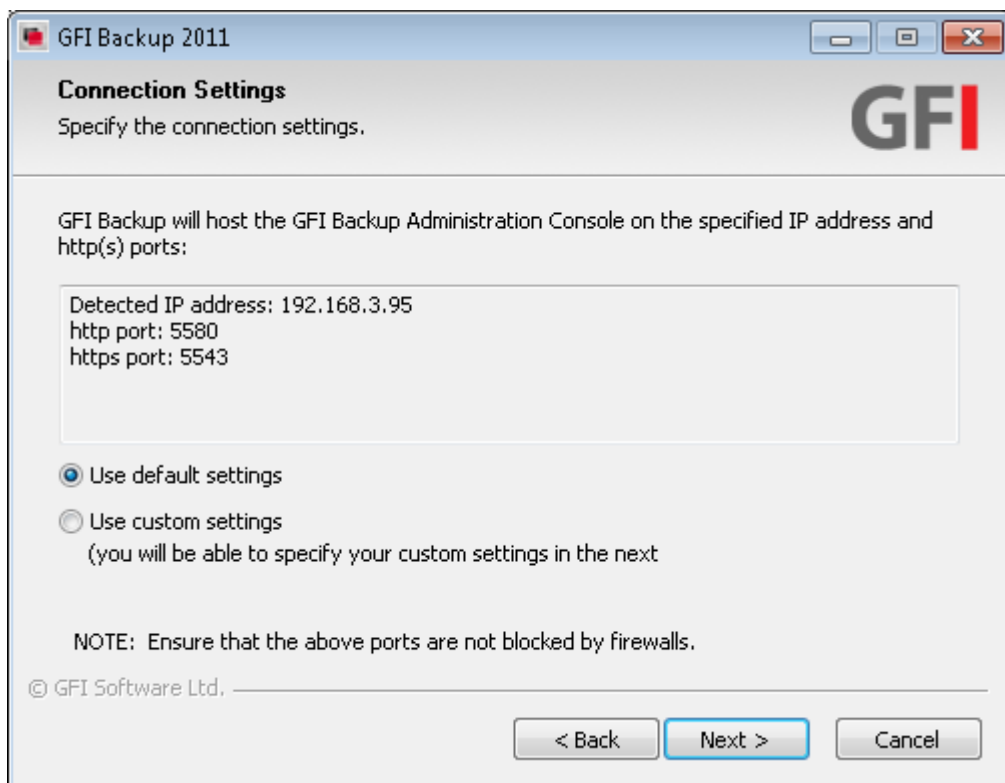
2.3.2 Supported operating systems (x86 or x64)

- Microsoft Windows Server 2008
- Microsoft Windows Server 2003 Standard/Enterprise
- Microsoft Windows 7
- Microsoft Windows Vista
- Microsoft Windows XP

3 Installing GFI Backup

3.1 Installation

1. Double click the GFI Backup Administration Console application setup.
2. Click **Next** at the **Welcome** screen to continue setup.
3. Choose the license type and click **Next**. To compare the available GFI Backup editions, refer to [Compare editions](#).
4. Carefully read the End-User License Agreement. If you agree to the terms laid out in the agreement, select **I accept the terms of the license agreement** and click **Next**.

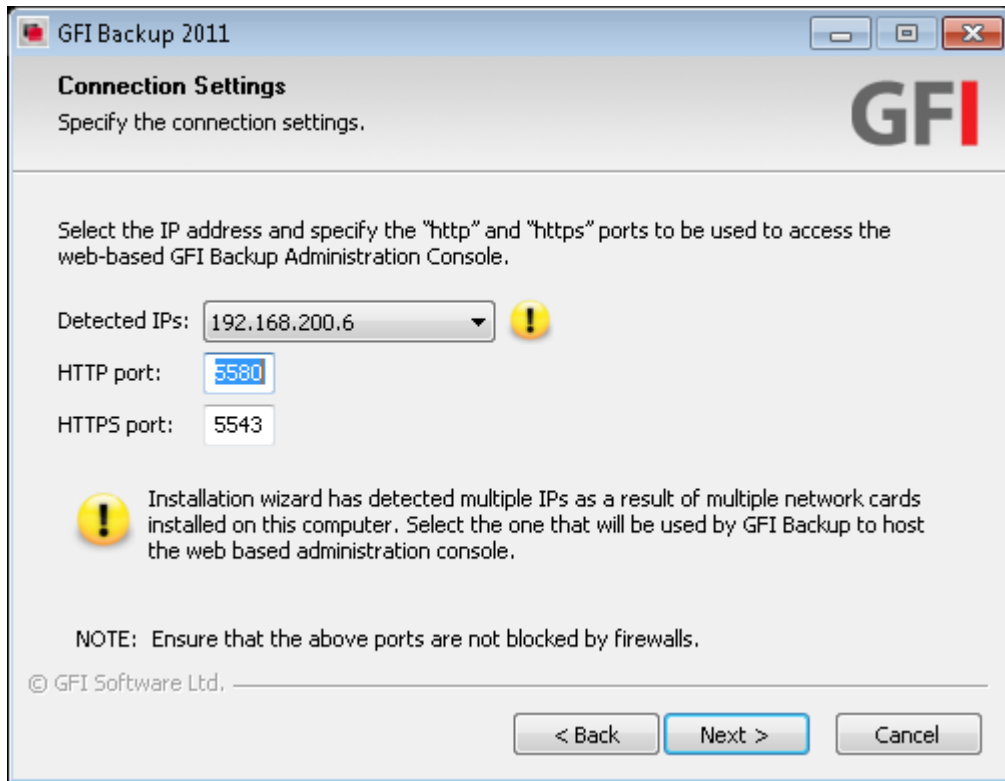


Screenshot 1 - Installation: Use default or custom connection settings

5. Select **Use default settings** and click **Next** to install GFI Backup Administration Console using the discovered IP address, HTTP and HTTPS ports. To change the discovered settings, click **Use custom settings** and click **Next**.



If the installation wizard detects multiple IP addresses the wizard enables you to select the IP address from a list of detected IPs.



Screenshot 2 - Installation: Specify custom connection settings

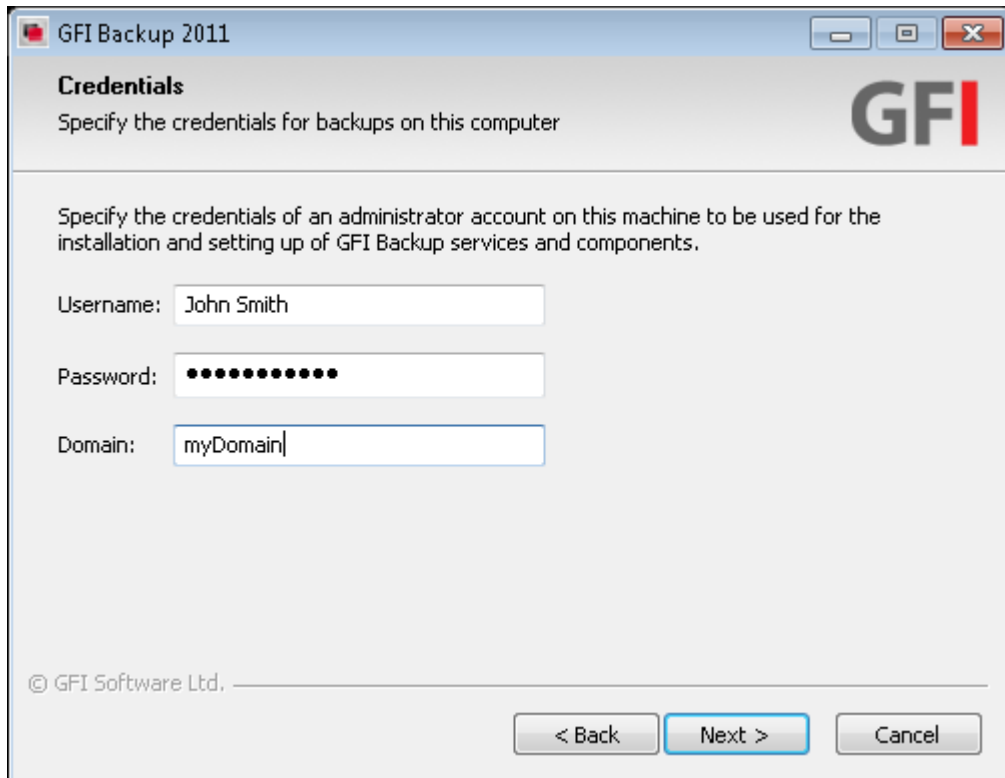
6.<Optional> If **Use custom settings** is selected in step 5, or if multiple IP addresses are discovered, select and key in the IP address, HTTP and HTTPS ports to use and click **Next** to continue setup.



For computers with multiple IP addresses (for example, Internal and External networks), you must specify an IP address reachable by all subnets where the GFI Backup Agents will be installed.



If **Use default settings** was selected, this screen is not displayed. In this case, proceed to the next step.



Screenshot 3 - Installation: Specify credentials used for local backup

7. Key in the local administrator account details required by the GFI Backup Agent to execute backup and restore tasks and for the configuration of other administrative settings. Click **Next** to continue setup.



Leave the **Domain** text box blank, if you do not know the domain name or your machine is not a domain member.

8. Key in or browse to select the folder where GFI Backup Administration Console will be installed and click **Next**.

9. Specify the Start menu folder name for GFI Backup and click **Install** to start installation.



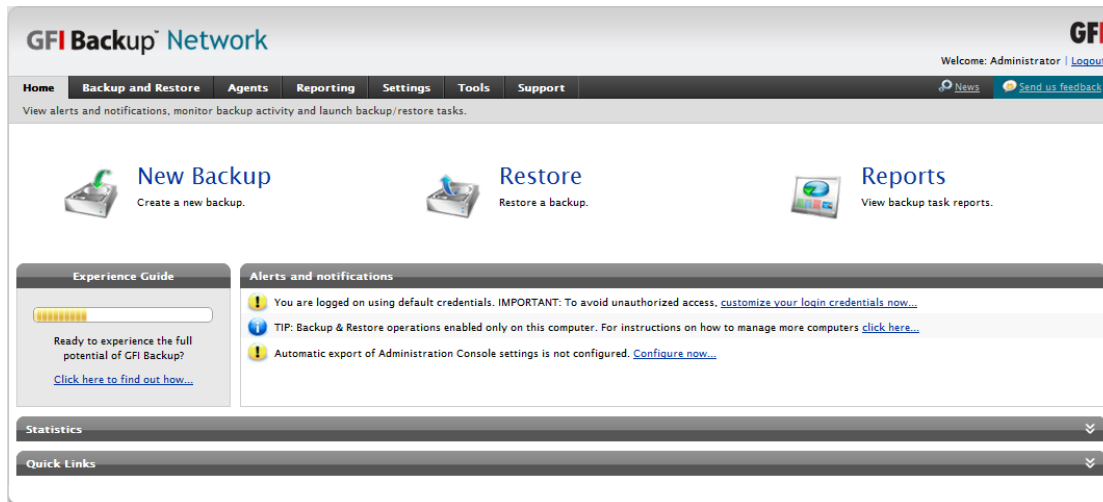
Screenshot 4 - Installation: Installation summary

10. On installation completion, review the **Installation Summary** page and click **Finish** to finalize installation.

On completion, GFI Backup is automatically launched. This enables you to configure and start using GFI Backup.



If GFI Backup is not launched automatically, refer to [Common Issues](#) section within the [Troubleshooting and support](#) chapter.



Screenshot 5 - Installation: Home page



To manually load the GFI Backup Administration Console web interface, click **Start**
 ► **Programs** ► **GFI Backup 2011** ► **GFI Backup 2011 Administration Console**.

3.2 Post install configurations

3.2.1 Introduction

This section is only applicable when installing GFI Backup in Network mode.

3.2.2 Step 1: Select the Data Access Method

The Data Access Method is the method used by GFI Backup to retrieve information located on the source computers. When switching to a **Network** license, the **Startup Wizard** enables you to select the preferred **Data Access Method**.


GFI Backup Network
Startup Wizard

Select data access method

Backup/restore operations must run under a Microsoft Windows user account that has access privileges over the data to be backed up from networked computers.

Select the method that GFI Backup will use to run backup and restore operations. This setting can be modified later on via GFI Backup Administration Console ► Settings.

☒ **One account for all** (Recommended for Active Directory environments)




Use the following Microsoft Windows account. This account has access privileges over all data to back up from networked computers and will be used by default to access the data networked computers.

User name:
E.g. "DOMAIN\User"

Password:

☐ **Custom** (Recommended for Workgroups)



Use this option if a common user account cannot be relied upon to access data on networked computers; such as operating in a work group environment. The GFI Backup Agent will prompt each user to specify their credentials and safely store them to access and process the data associated with these accounts.

[Help me choose...](#)

Finish

Screenshot 6 - GFI Backup: Select Data Access Method

1. Select one of the following options:

- **One account for all:** Choose this option if your network setup allows for a single user account that has read access privileges on all the data to back up from networked computers and write rights over the locations where to restore data (for example, a domain or a local administrator account) Also, key in the user account's credentials.

This option is recommended for Microsoft Active Directory environments.



Key in the credentials in 'domain\user' or 'user@domain.com' format. In case of workgroups, key in the credentials in 'computer name\user' format.

- **Custom:** Choose this option if there is no common user account in your network setup that can be relied upon to access data on networked computers, for example, in Microsoft Windows Workgroup computers. Choosing this option will prompt every GFI Backup Agent to ask each network user where it is deployed to input his/her login credentials. This data will be encrypted, stored and used to access the data to back up on networked computers.

This option is recommended for Microsoft Windows Workgroup environments.

2. Click **Finish** to finalize Startup Wizard setup.

3.2.3 Step 2: Configure the Administration Console login details

The GFI Backup Administration Console login account is an in-built account used to login GFI Backup. By default, this account is pre-set to use **admin** as both username and password.

It is highly recommended to change the default settings as follows:

1. Launch GFI Backup Administration Console and login using the default account.
2. Select **Settings** tab ► **General Settings**.

GFI Backup Administration Console Login account details

Use this section to configure the password that will be used for the logging on to Administration Console.

Old Password:	<input type="password"/>
New Password:	<input type="password"/>
Confirm Password:	<input type="password"/>

Screenshot 7 - Settings: Administration Console login account

3. In **GFI Backup Administration Console Login account details**, key in the old password, new password and the new password confirmation.
4. Click **Save**.

3.2.4 <Optional> Step 3: Configuring Proxy Settings

If your network settings require that you configure GFI Backup to use a proxy:

1. Locate the `config.ini` file in the *<GFI Backup installation path>\GFI Backup 2010 Administration Console\hdocs\config* folder.
2. Open `config.ini` with a text editor and locate the `[proxy]` identifier.
3. Provide the following information:

OPTION	DESCRIPTION	EXAMPLE
<code>proxy_address =</code>	Defines proxy IP address where data should be relayed to.	<code>proxy_address = 192.168.3.122</code>
<code>proxy_port =</code>	Defines proxy IP port where data should be relayed to.	<code>proxy_port = 225</code>
<code>proxy_username=</code>	Defines the username using which you can access the proxy service	<code>proxy_username=proxyuser</code>
<code>proxy_password=</code>	Defines the password using which you can access the proxy service	<code>proxy_username=proxyuserpassword</code>

4. Save the `config.ini` file and restart the GFI Backup Administration console.

4 Testing GFI Backup

4.1 Introduction

Once GFI Backup is installed and the post configuration settings are configured, test your GFI Backup installation to ensure that GFI Backup is working correctly. Follow the steps in the example in this section to configure a test backup. This test will enable you to configure a basic backup task with minimal configuration to execute the backup task and to restore data back to its original location.



The information contained within this test is aimed ONLY at providing you with basic backup and restore test setup. For detailed information on how to configure backups and restores and on the options provided by GFI Backup, refer to the **GFI Backup Administration Console Help**.

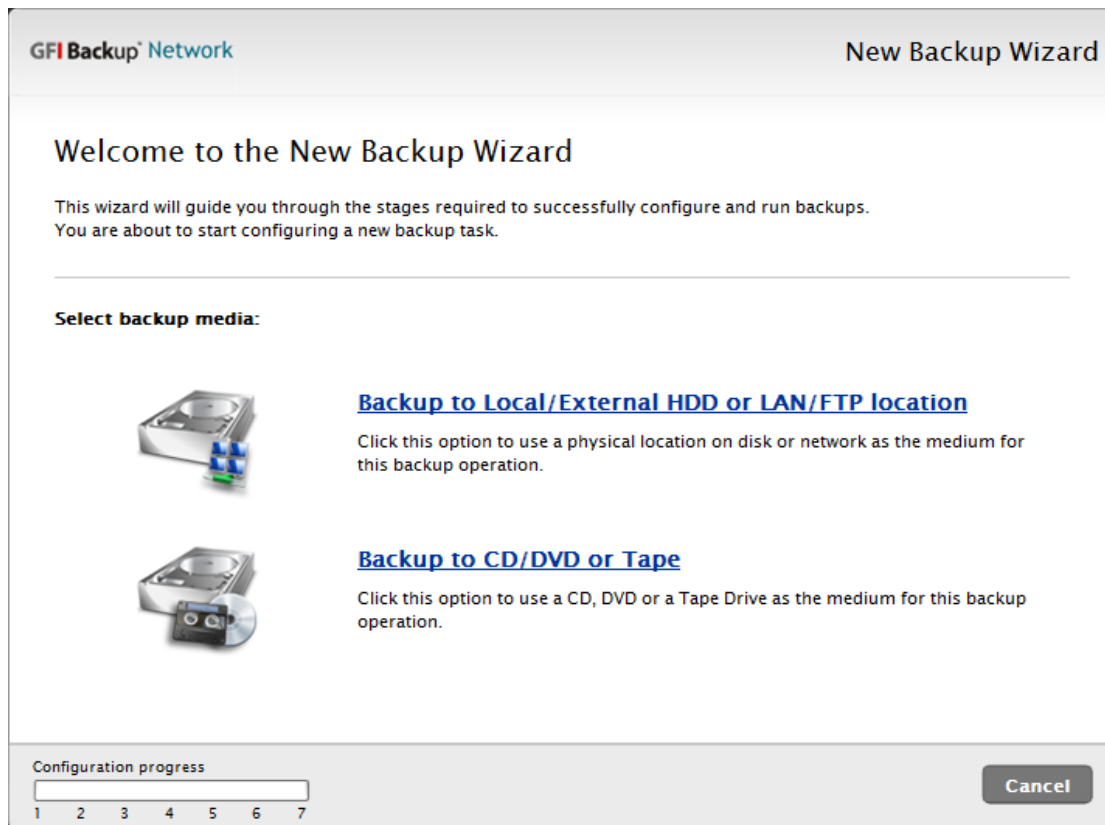
4.2 Step 1: Adding a test backup task

1. From the GFI Backup Administration Console main screen, select **New Backup** option.



Screenshot 8 - Test backup: Select Backup files, folders and settings option

2. Select **Files and Folders backup**.



Screenshot 9 - Test backup: Select the destination media used for backup

3. In the welcome screen, select **Backup to Local/External HDD or LAN/FTP location**.

GFI Backup Network **New Backup Wizard**

General | Computer | Source | Destination | Options | Scheduler

STEP 1 of 7: Specify the general details for the new backup.

Specify backup task details.

Backup Task Name:
Backup name that will appear in the task list.

Backup Description:
(Optional)
The description for this backup task

Configuration progress
 2 3 4 5 6 7

Next > **Cancel**

Screenshot 10 - Test backup: General tab

4. In the **General** tab, key in the new backup task details:

- **Backup Task Name:** Define the backup task name that will be associated with the new task being created.
- **Backup Description:** Key in an optional description of the new backup task being created.

Click **Next**.

GFI Backup[®] Network
New Backup Wizard

General
Computer
Source
Destination
Options
Scheduler

STEP 2 of 7: Specify the computers to which this backup will apply.

By default, backups are run for all users configured on selected computer(s). Use the dropdown below to run backups only for specific or currently logged on users. [Tell me more...](#)

Run backup jobs for: All users on selected computers ▼

☐

Workgroup WORKGROUP

☒ W702

Note: Only the local agent is installed. Backup/Restore tasks enabled only on this computer. [Tell me more...](#)

Configuration progress

1234567

« Back
Next »
Cancel


Screenshot 11 - Test backup: Computer tab


5. In the **Computer** tab, choose **All users on selected computers** option from the **Run backups jobs for:** drop-down. Choose the computers for which the new backup operation will be applicable and click **Next**.

GFI Backup[®] Network
New Backup Wizard

General
Computer
Source
Destination
Options
Scheduler

STEP 3 of 7: Specify the source files and items to be stored during this backup.


Files/Folders


Drives

Backup source selector: Specific Paths ▼

Apply to: ALL COMPUTERS ▼

Path to add to backup: Enter path... Add... Browse

TIP: [System variables are supported.](#)

<input type="checkbox"/>	Path	On
<input type="checkbox"/>	C:\Source	ALL COMPUTERS

File Filters
Remove

Configuration progress

1
2
3
4
5
6
7

« Back
Next »
Cancel

Screenshot 12 - Test backup: Source tab

6. In the **Source** tab, click **Files/Folders ► Browse**. Select the source folder to backup and click **Next**.

GFI Backup Network
New Backup Wizard

General
Computer
Source
Destination
Options
Scheduler

STEP 4 of 7: Specify the destination where this backup will be saved.

Select backup target destination.

Destination: Folder/External HDD on computer running agent ▼

An existing folder located on each individual computer selected in the Computer tab of this New backup wizard. Data collected from the computer where agent is installed will be saved on the same computer from where data to backup is located.

Local Folder/External HDD

Specify the folder where to store backup archive:

Destination: C:\Destination Browse

You can use the following variables into your path:

- %COMPUTERNAME%
- %WORKGROUP%
- %USERNAME%
- %DOMAIN%

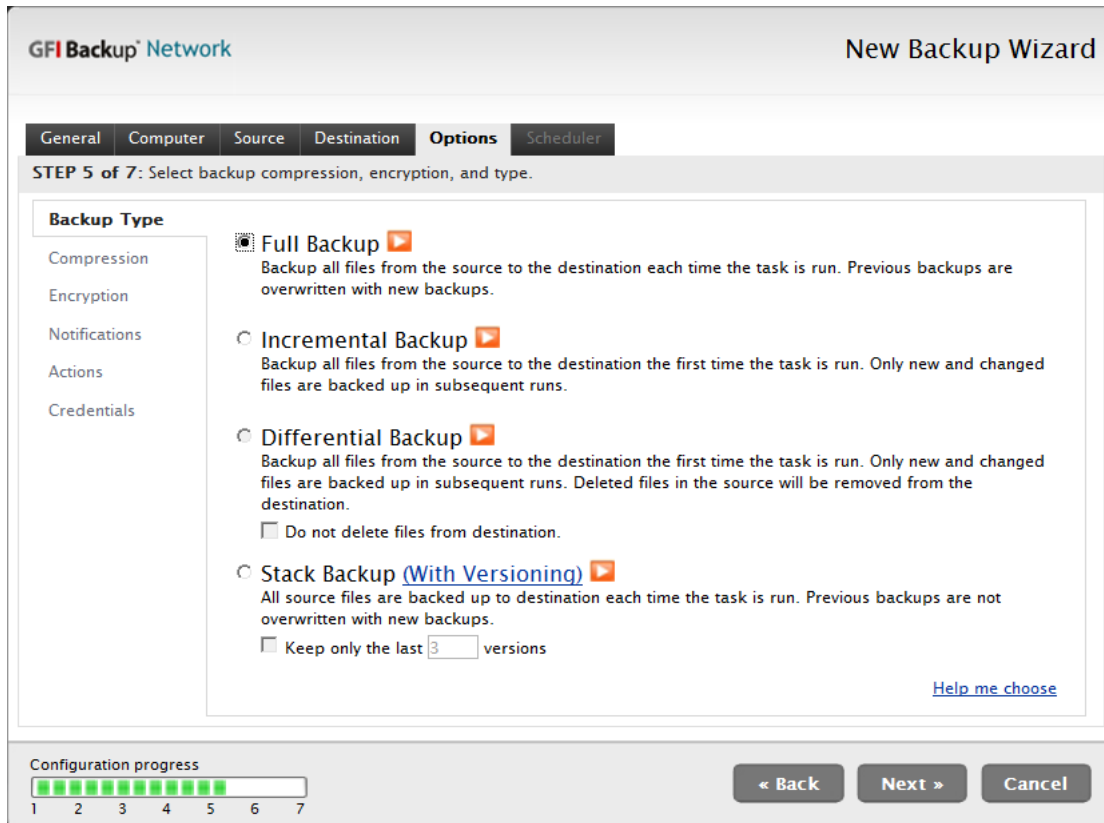
Configuration progress

1
 2
 3
 4
 5
 6
 7

« Back
Next »
Cancel

Screenshot 13 - Test backup: Destination tab

7. In the **Destination** tab, **select Folder/External HDD on computer running agent** and click **Browse**. Select the source folder to backup and click **Next**.

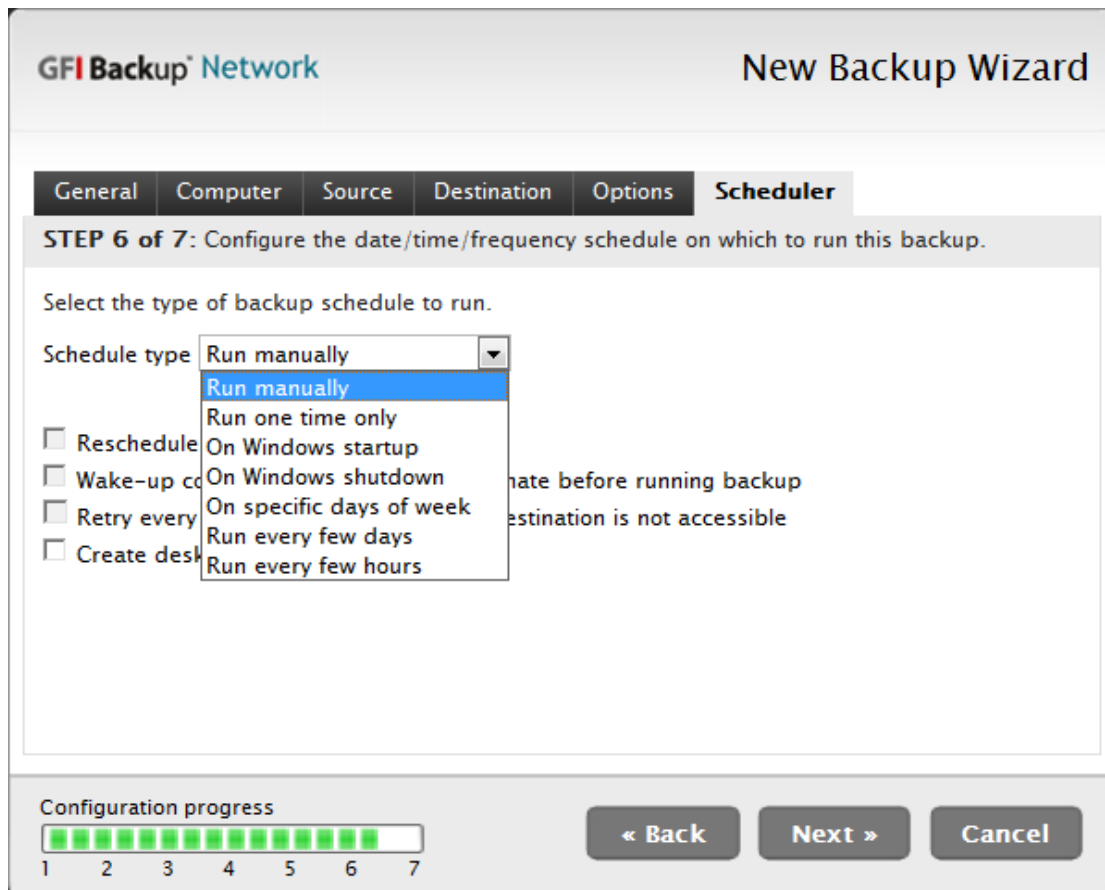


Screenshot 14 - Test backup: Options tab

8. In the **Options** tab, select **Full Backup**. This will copy all data to the backup destination. Click **Next**.

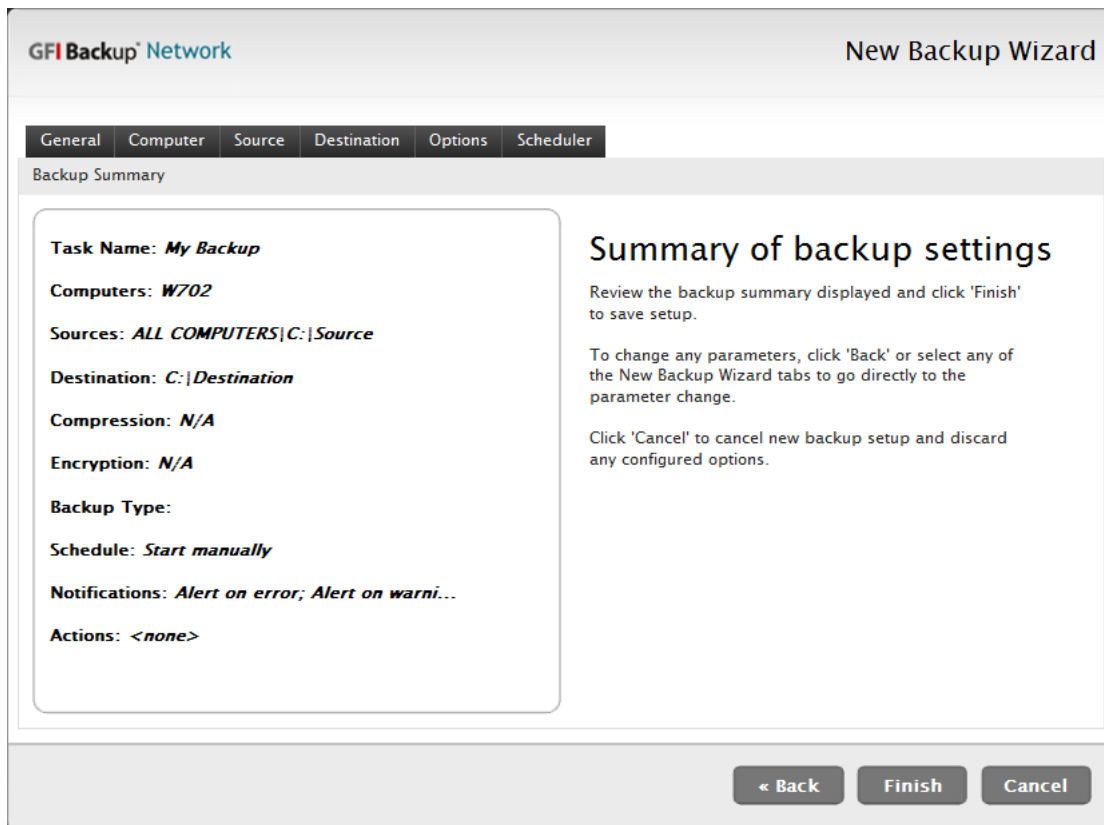


For this test, all other options in the **Options** tab should be left to the default values. For more information on how to configure these settings, refer to the GFI Backup Administration and configuration manual installed with the product.



Screenshot 15 - Test backup: Scheduler tab

9. In the **Scheduler** tab, select **Run manually** from the **Schedule type** drop-down. This enables you to execute the task manually on completion of the wizard.



Screenshot 16 - Test backup: Summary of backup settings dialog

10. In the **Summary of backup settings** dialog review the task being set up and click **Finish**. Click **Yes** to start backup.

4.3 Step 2: Restoring test backup task

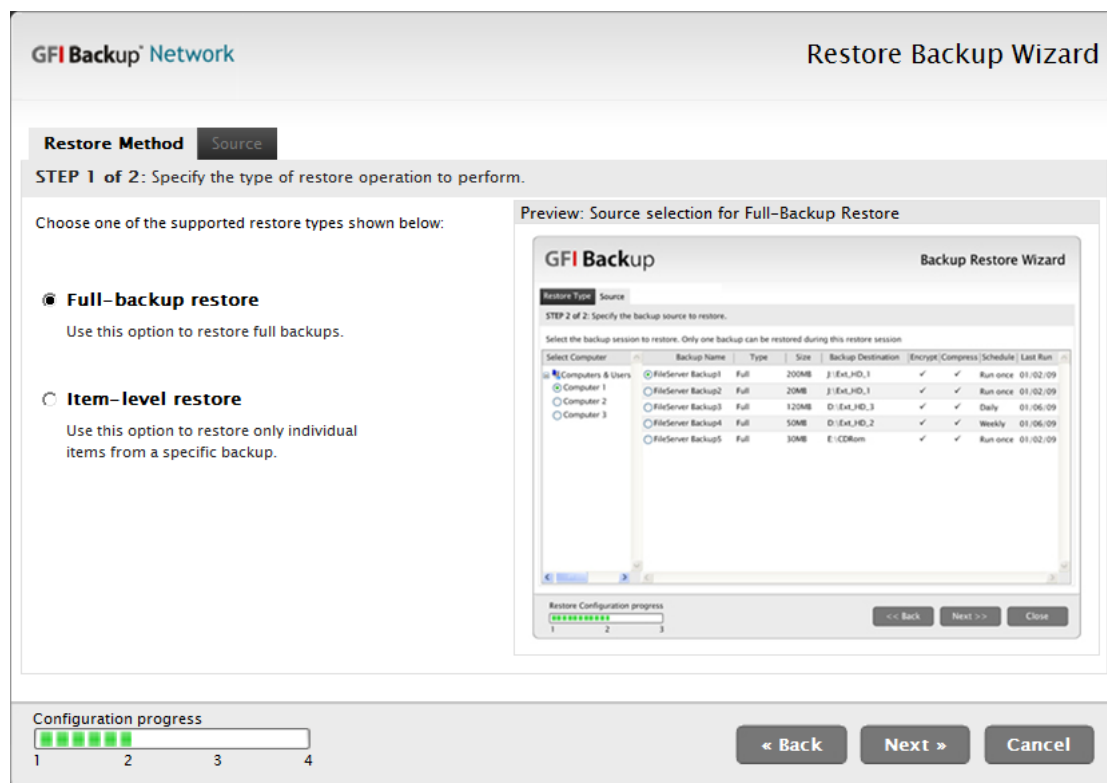
1. After the backup task is complete, locate the source files previously backed up on the local computer and either remove (delete) or rename the folder containing such files.



This will facilitate the restore validation process and it will be easier to see that the files are restored.

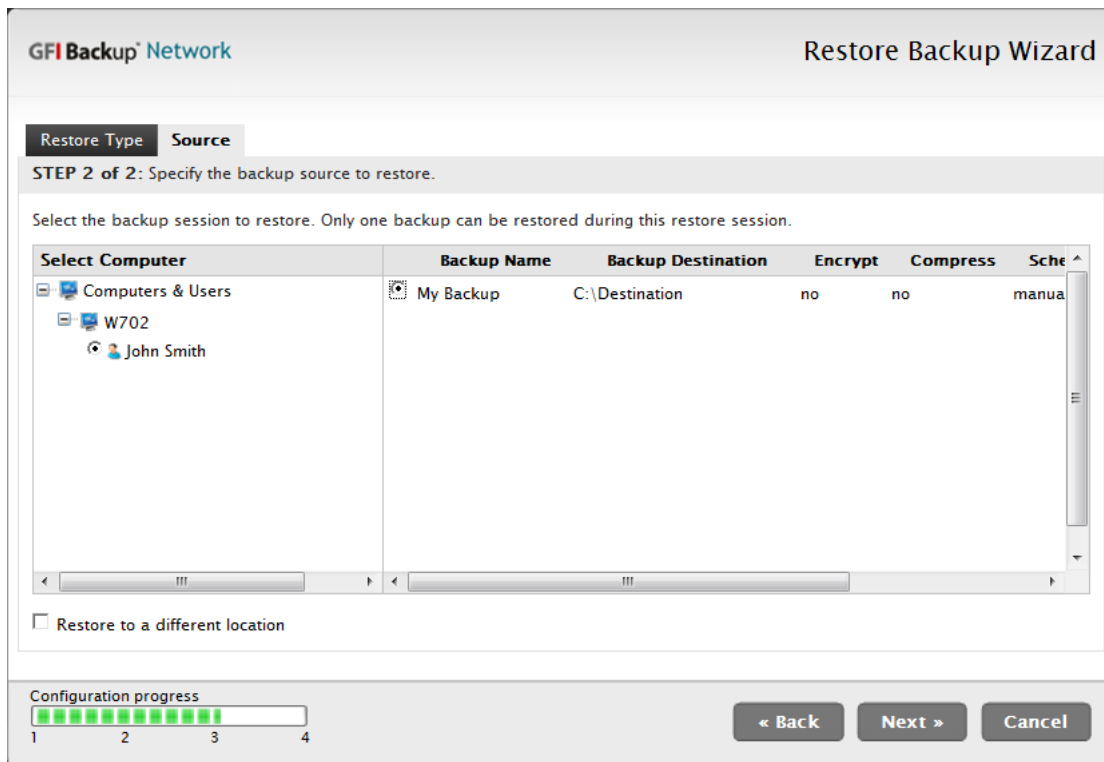
2. From the GFI Backup Administration Console main screen, select **Restore** and in the welcome screen, click **Next**.

3. Select **Restore Other Backup** and click **Next**.



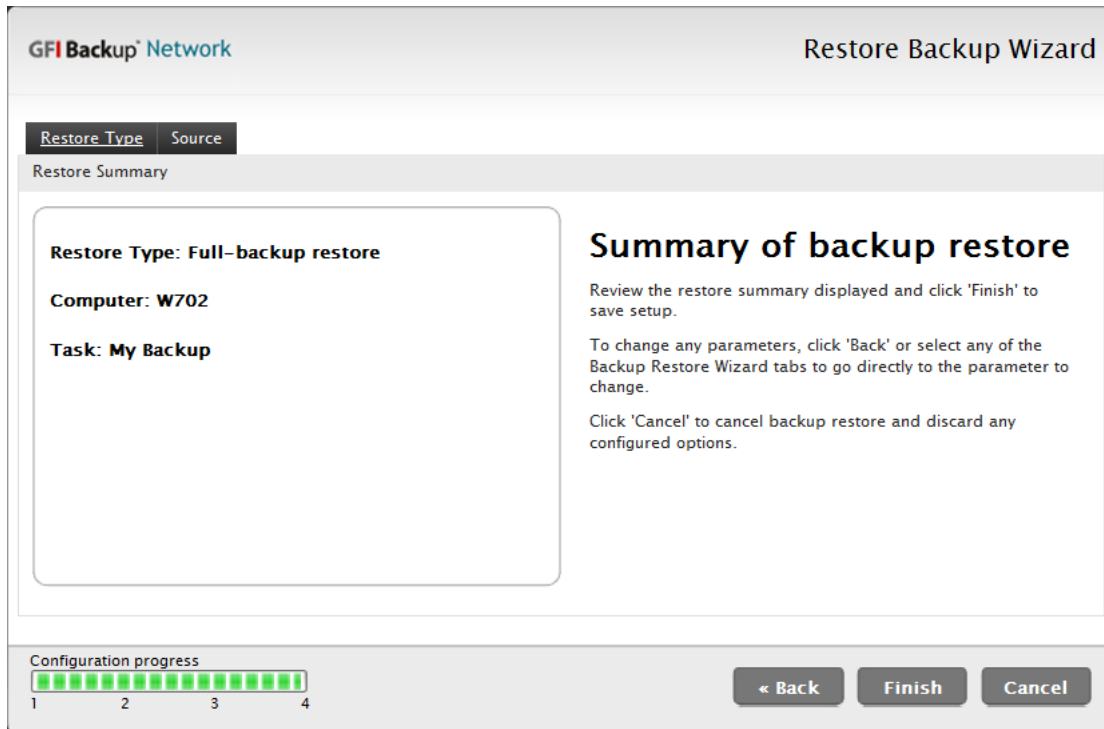
Screenshot 17 - Test restore: Selecting Full-Backup restore

4. In the **Restore Type** tab, select **Full-backup restore** and click **Next**.



Screenshot 18 - Test restore: Select computer and backup to restore

5. From the **Select Computer** list, select the user for which to restore data.
6. From the list of backups displayed, select the backup to restore.
7. <Optional> To restore to a location different from the original location, select **Restore to a different location**, key in the path and click **Next** to continue restore configuration. Alternatively, to restore to the original location, click **Next**.



Screenshot 19 - Test restore: Summary of backup restore dialog

8. In the **Summary of backup restore** dialog, review the restore information displayed.
9. Click **Finish** to start restore operation and wait for the task to complete.

4.4 Step 4: Validating the restore process

Check that the contents of the restored folders match the original source files previously backed up. Files should match in both content and attributes.

5 Troubleshooting and support

5.1 Introduction

This chapter explains how to resolve any issues encountered during installation of GFI Backup. The main sources of information available to solve these issues are:

- This manual - most issues can be solved through the information in this section.
- GFI Knowledge Base articles
- Web forum
- Contacting GFI Technical Support

5.2 Common Issues

ISSUE ENCOUNTERED	SOLUTION
GFI Backup does not load startup wizard or login screen.	<p>Description</p> <p>On some Microsoft Windows Server installations, GFI Backup user interface might not load until GFI Backup is added as a trusted site.</p> <p>Solution</p> <p>Add GFI Backup website as a trusted site within Internet Explorer.</p> <ol style="list-style-type: none"> 1. In Internet Explorer, select Tools ► Internet Options 2. Select Security tab, choose Trusted Sites icon and click Sites. 3. Uncheck 'Require server verification (https :) for all sites in this zone' option, add the GFI Backup website (for example, 192.168.3.27:5580) as a trusted site and click Add. 4. Click Close and OK to exit.
GFI Backup does not back up open files.	<p>Cause</p> <p>There might be a problem with Microsoft Volume Shadow Copy Service (VSS).</p> <p>Solution</p> <p>Refer to http://kbase.gfi.com/showarticle.asp?id=KBID003549 for a detailed procedure on how to solve VSS issues.</p>

5.3 Knowledge Base

GFI maintains a comprehensive Knowledge Base repository, which includes answers to the most common installation problems. In case that the information in this manual does not solve your installation problems, next refer to the Knowledge Base. The Knowledge Base always has the most up-to-date listing of technical support questions and patches. Access the Knowledge Base by visiting: <http://kbase.gfi.com/>

5.4 Web Forum

User to user technical support is available via the GFI web forum. Access the web forum by visiting: <http://forums.gfi.com/>.

5.5 Request technical support

If none of the resources listed above enable you to solve your issues, contact the GFI Technical Support team by filling in an online support request form or by phone.

- **Online:** Fill out the support request form and follow the instructions on this page closely to submit your support request on:
<http://support.gfi.com/supportrequestform.asp>
- **Phone:** To obtain the correct technical support phone number for your region visit:
<http://www.gfi.com/company/contact.htm>

NOTE: Before you contact Technical Support, have your Customer ID available. Your Customer ID is the online account number that is assigned to you when you first register your license keys in our Customer Area at: <http://customers.gfi.com>.

We will answer your query within 24 hours or less, depending on your time zone.

5.6 Build notifications

We strongly suggest that you subscribe to our build notifications list. This way you will be immediately notified about new product builds. To subscribe to our build notifications, visit: <http://www.gfi.com/pages/productmailing.htm>.

5.7 Documentation

If this manual does not satisfy your expectations, or if you think that this documentation can be improved in any way, let us know via email on: documentation@gfi.com

6 Glossary

TERM	DEFINITION
Active Directory	A technology that provides a variety of network services, including LDAP-like directory services.
Advanced Encryption Standard	An encryption standard approved by and in use, amongst others, by the National Security Agency (NSA) of the U.S. Government for the encryption of sensitive material. While it is slower than ZIP encryption, it is more secure.
AES	See Advanced Encryption Standard
Advanced Intelligent Tape	A proprietary technology owned by Sony based on helical scan like DAT but different tape technology. It is not as popular as DAT due to significant cost difference and the format is considered End-Of-Life. Sony joined HP to further develop media for DAT/DDS drives.
AIT	See Advanced Intelligent Tape
Authorize agent	An operation triggered at the GFI Backup Administration Console that enables an installed agent to be used with GFI Backup.
Backup actions	Actions automatically performed by GFI Backup just before or after a backup is taken. This includes running applications (for example, anti-virus) and backup verification.
Backup destination	The location where backups will be located once a backup is completed.
Backup notifications	The visual and audio notifications displayed or sent to users on specific events being triggered, for example, send email notification on backup task successful execution.
Backup policy	Rules and procedures in force within an organization that enable that organization to take adequate amounts and types of backup. This includes testing of the restore processes.
Backup rotation scheme	A method used to backup data effectively where different media is moved from storage to use and vice versa.
Backup schedule	The schedule that the backup task will be executed upon, for example, execute weekly on Thursday at 23:00.
Backup source	The data that will be backed up by the backup task in question.
Backup window	The time period during which a system is available for backups.
Backup task name	A user-friendly name used to identify backup tasks name within GFI Backup.
Blu-ray disk	An optical disc storage medium designed to cater for capacities up to 50 Gigabytes.
Compression	A mechanism that enables the encoding of information using a reduced number of bits to represent data. This enables considerable savings in terms of storage space.
Compression level	The level of compression applied to a specific data set.
Credentials	A user name and password used to authenticate users within systems.

TERM	DEFINITION
Daily Backup Status report	A report that enables users to keep track of the status of backup tasks on a daily basis. It is automatically generated and distributed via email on a daily basis and takes into consideration only the tasks executed during the previous 24 hours.
DAT	See Digital Audio Tape
Deployment	The act of installing software on to a system, for example, the installation of the GFI Backup Agent on client computers.
Desktop applications	Applications installed on the computers where GFI Backup Agent is installed and which can be backed up by GFI Backup.
Differential Backup	A replace backup type where all the data changed since last full-backup is backed. Typically, this backup is slower to take but faster to restore.
Digital Audio Tape	The most popular tape format in use at the low end of the tape drive market. Capacities vary from 72GB to 320GB.
Digital Linear Tape	A proprietary technology owned by Quantum. DLT-V is targeted for small and medium-sized businesses while DLT-S/SDLT is a high capacity range aimed for enterprise and larger businesses. DLT-S / SDLT also support DLT-V for backward compatibility. DLT includes WORM capability It supports Hardware compression with a compressed capacity up to 1.6TB per cartridge and also higher data throughput than DAT drives.
Disaster recovery	The process of recovering and restoring data in the eventuality of a disaster. It is highly recommended that such a process is planned, audited and tested on a regular basis.
DLT	See Digital Linear Tape
Encryption settings	The settings that enable GFI Backup to encrypt the data to back up. This includes the type of encryption (ZIP/AES) and the encryption password.
FTP location	A remote backup destination accessible via the FTP protocol where the files to be backed up by GFI Backup will be stored.
Full-Backup	A backup type where all the data will be backed up, regardless of whether this data was previously backed up or not.
Full-Backup Restore	The complete restore of a backup previously taken.
GFI Backup Agent	A software application deployed on the computers to back up data from that enables GFI Backup to collect, archive and compress data to a central backup destination.
GFI LANguard	A GFI application that provides network security scanning and vulnerability management services. Can be also used to deploy software such as the GFI Backup Agent. Refer to http://www.gfi.com/lannetscan for more information on GFI LANguard.
Hot backup	The backup of a database that has not been stopped for backup purposes.
Incremental Backup	A replace backup type where only the data changed in the period between the backup being taken and the last backup taken is backed. Typically this backup type is faster to take but slower to restore.
Item level restore	A type of backup restore where only selected files/folders/settings are restored.

TERM	DEFINITION
LAN folder	A backup destination on a LAN where backups will be saved on the successful execution of a backup task.
Media Spanning	The process of splitting a backup task across multiple media to backup data which volume is more than what the media allows.
Microsoft Volume Shadow Copy Service	A Microsoft Windows OS (Windows XP and Windows 2003 onwards) that provides the backup infrastructure for Windows based computers and servers. Also provides a mechanism for creating consistent point-in-time copies of data known as shadow copies. It is also the service through which open files can be backed up.
Linear Tape Open	An open standard for magnetic data tape storage which is supported by LTO consortium initiated by Seagate, HP and IBM. It is the product of choice for high performance backups in an enterprise and large business. LTO is cheaper and more readily available (Ultrium form factor) than DLT-S /SDLT while performance is almost the same. LTO also supports Encryption.
LTO	See Linear Tape Open
Open File Backup	The ability of a software application to take a backup of a file that is currently in use. Within GFI Backup this is possible through VSS.
Registry keys	Entries within the Microsoft Windows system file that contains varied information about the Windows operating system as well as configuration information about installed applications.
Replace Backup	A type of backup where rather than taking a full-backup, only the files that changed since the last backup are archived. This data replaces the data in the original fileset and, due to the lower volume of data to backup, is quicker to take.
Remote Store	A backup that is permanently stored in an offsite facility for disaster recovery purposes.
Self extracting archive	A type of zip archive that requires no software for decompression.
Stack Backup	A type of backup similar to a full-backup but which append a version number to files previously backed up.
Status monitor	A visual mechanism within GFI Backup Administration Console that enables users to discover various statistics on the functions of GFI Backup.
Tape	A backup medium where data is stored on a magnetic tape.
Unauthorized agent	The process through which agents previously authorized are set an unauthorized. This invalidates the GFI Backup Agent functionality and operations (backups and restores) can no longer be performed.
User permissions	A set of rules that define what operations users can execute with the GFI Backup Agent installed on their computer.
VSS	See Microsoft Volume Shadow Copy Service
Workgroup	A Microsoft peer-to-peer computer network where members can access each other's resources such as files, printers, and internet connection.
ZIP password protection	A data compression and archive format that offers encryption mechanisms that are faster than AES but less secure.

7 Appendix 1 - Credentials for remote operations

7.1 Introduction

On all Microsoft systems, an entity that requests access to data requires rights to access such data, otherwise access is denied. In the case of GFI Backup, the credentials are defined in **Settings ► Backup/Restore Settings** as the method used by GFI Backup to acquire read rights.



When installing GFI Backup Network Edition, the wizard will guide you to configure the Data Access Method. For more information, refer to [Step 1: Select the Data Access Method](#) within the [Installing GFI Backup](#) chapter.

Since different networks have different requirements, GFI Backup cannot automatically determine what a network's requirements are. This setting enables GFI Backup to:

- Provide a single set of account credentials with rights to all the data to back up (for example, a domain or local administrator password)
- Have network users provide their own password, which will be securely stored and used at the time of backup to access data residing on the computers that they use.

7.2 One account for all

This method is typically recommended for Active Directory environments where system administrators have exact control over users and permissions. Through a single account with domain or local administrator privileges, or an ad-hoc account purposely created with rights over the data to access, you typically can access all the data over the network and have GFI Backup back it up for you.

This method is also applicable in Microsoft Windows Workgroup environments if you create an administrator account on each and every computer on the workgroup with the same set of login credentials. While this might be feasible for small networks, this may not be practical in larger workgroup environments due to the management overhead.

To configure GFI Backup to use this method, select **Use the following user account credentials** and key-in a set of credentials that have read/write access over all the data to back up. These credentials are typically your domain or local administrator credentials which have full access rights to the data to backup. For added security you may also however, create an ad-hoc, administrative, account with “read” rights over all the data to back up and “write” rights over all the locations to restore data to.

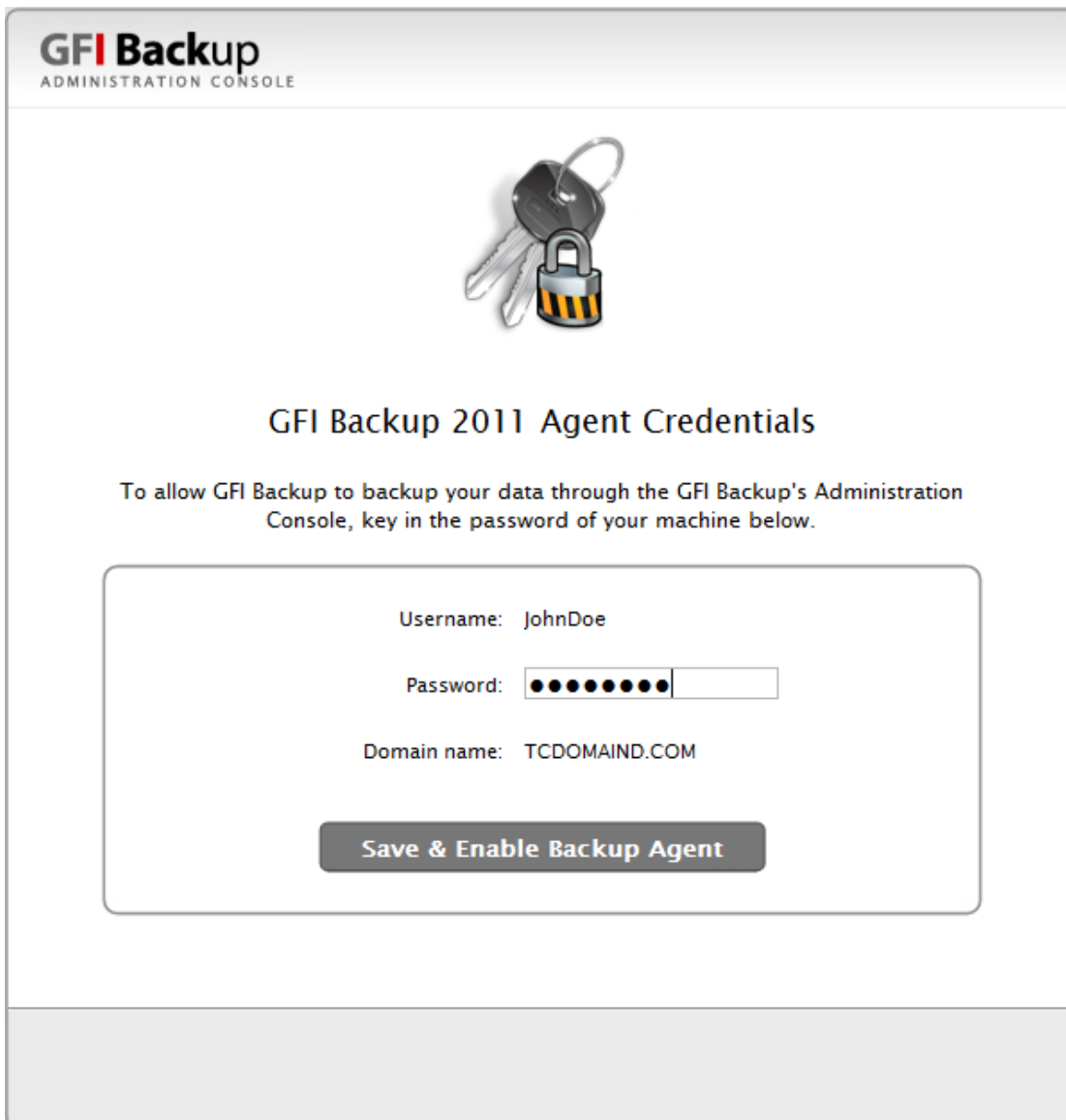
The account to be used should be keyed in using one of the following two formats:

- domain\username
- username@domain.com


7.3 Credentials supplied by users

This method is typically recommended for workgroups where the use of a single, common user account cannot be relied upon to access data on networked computers. In this case, users will be asked to key in their login credentials via the GFI Backup Agent login credentials screen. These credentials are then securely stored and used at the time of backup execution to access the data to back up.

This option can also be used in Microsoft Windows Active Directory environments. It is however often not required since typically providing the credentials of a user with rights to access all data to back up in the **Single account** method requires less management overhead.



GFI Backup
ADMINISTRATION CONSOLE



GFI Backup 2011 Agent Credentials

To allow GFI Backup to backup your data through the GFI Backup's Administration Console, key in the password of your machine below.

Username: JohnDoe

Password: [masked with 10 dots]

Domain name: TCDOMAIN.D.COM

Save & Enable Backup Agent

Screenshot 20 - GFI Backup Agent: Credentials screen

Choosing the **Use credentials supplied by users**, will prompt users to provide their credentials at these times:

- **Upon agent installation:** The user installing the agent will be asked to provide his/her credentials when the agent is installed.
- **Upon first login:** Users other than the one that installed the agent will be asked to provide their credentials when they log in for the first time on a computer that has the agent installed.
- **Upon credential changes:** Users will automatically be asked to re-supply their passwords when their login credentials change.
- **Upon password resets:** Users will automatically be asked to re-supply their passwords if you instruct GFI Backup to reset a user's password. This is done from the **Agents ► Properties ► Users ► Reset Password** option. For more information on resetting passwords, refer to the GFI Backup Administration Console - Administration and User Guide manual.

7.3.1 Password Security

GFI takes your network security very seriously. To ensure that your passwords are as secure as possible when in transit and when stored in the GFI Backup database we have taken the following actions:

- All credential information exchanges between your network computers and GFI Backup are securely encrypted to prevent anyone from reading your data while this is in transit.
- All credential information stored within the GFI Backup database is securely encrypted.

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